Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims

1 1. (Currently amended): A method for a disk device of authenticating disk management information of a disk to certify validity of management information recorded on the 2 3 disk, comprising the step of: initiating stop-processing; and 4 subsequent to initiating stop-processing, recording authentication information on 5 the disk on which the management information is recorded, the authentication information 6 7 confirming validity of the management information. 1 2. (Currently amended): A method in a disk device for of authenticating disk 2 management information of a disk to certify validity of management information recorded on the 3 disk, comprising the steps of: 4 recording authentication information on the disk on which the management 5 information is recorded, thereby certifying that the management information is valid; and 6 recording invalidating information on the disk on which the management 7 information and the authentication information are recorded, thereby invalidating certifying 8 effect of the authentication information, 9 the step of recording invalidating information being performed during startup 10 processing by the disk device.

Appl. No. 10/618,271 Amdt. sen June 14, 2006 Reply to Office Action of February 17, 2006

	3. (Currently amended): A method of authenticating disk management
information-ac	cording	to claim 2, of a disk using a disk device to certify validity of management
information red	corded o	n the disk comprising the steps of:
	recordin	a during stonning processing of a disk device in which the disk is loaded

recording, during stopping processing of a disk device in which the disk is loaded, authentication information in a power calibration area on the disk if validity of the management information is confirmed; and

recording invalidating information, before data recording processing, in response to a data recording request first received after the disk device is started.

- 4. (Currently amended): A method of authenticating disk management information according to <u>claim 3-claim 2</u>, comprising the steps of:
- sequentially and additionally recording authentication information and invalidating information in one the power calibration area on the disk;
- regarding the management information on the disk as valid if invalidating information is absent after authentication information last recorded on the disk; and regarding the management information on the disk as invalid if invalidating information is present after authentication information last recorded on the disk.
- 5. (Currently amended): A method of authenticating disk management information according to claim 3 wherein the invalidation information uses a power calibration pattern recorded in the power calibration area, and if the last recorded calibration pattern is a test pattern, then the disk management information is deemed to be invalid. claim 2, comprising the steps of:
- recording authentication information and invalidating information in a power calibration area on the disk; and
- 8 using, as invalidating information, a power calibration pattern recorded in the 9 power calibration area.

Appl. No. 10/618,271 Amdt. sen June 14, 2006 Reply to Office Action of February 17, 2006

4

1	6. (Currently amended): A disk device, comprising:		
2	means for recording authentication information in a power calibration area on a		
3	disk to certify validity of management information in a recording management area on theon a		
4	disk and invalidating information to invalidate certifying effect of the authentication information,		
5	in the power calibration area on the disk on which the management information is recorded; and		
. 6	means for determining whether or not the management information on the disk is		
. 7	valid by confirming the authentication information and the invalidating information on the disk.		
1 2	7. (Currently amended): A disk device according to claim 6, wherein: the authentication information is recorded, in during the time that stopping		
3	processing of the disk device is being performed, if validity of the management information is		
4	confirmed; and		
5	the invalidating information is recorded, before data recording processing, in		
6	response to a data recording request first received after the disk device is started.		
1	8. (New): A method of authenticating disk management information		
2	according to claim 3, wherein the authentication information is a copy of the disk management		
3	information, and if the information last recorded in the power calibration area is the same as the		

disk management information, then the disk management information is deemed to be valid.